

03/28/01



03-29-01

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

A  
10971 U.S. PTO  
09/820068  
03/28/01

In re Application of:	)	PATENT APPLICATION
	)	
Inventors: Wei Pan, Jer-shen Maa,	)	
David R. Evans and Sheng	)	
Teng Hsu	)	
	)	
Serial No.: Not Yet Assigned	)	Attorney Docket No.
	)	SLA 0493
Filed: Herewith	)	
	)	
Title: METHOD OF BARRIER METAL	)	
SURFACE TREATMENT PRIOR	)	
TO Cu DEPOSITION TO	)	
IMPROVE ADHESION AND	)	
TRENCH FILLING CHARACT-	)	
ERISTICS	)	

**CERTIFICATE OF MAILING BY "EXPRESS MAIL"  
UNDER 37 C.F.R. § 1.10**

"Express Mail" mailing label number **EK811997266US**  
Date of Mailing: March 28, 2001

I hereby certify that this correspondence is being deposited with the United States Postal Service, utilizing the "Express Mail" Post Office to Addressee" service addressed to Box PATENT APPLICATION, Assistant Commissioner for Patents, Washington, DC, 20231 and mailed on the above Date of Mailing with the above "Express Mail" mailing label number.

*Victoria A. Woods*

Victoria A. Woods  
Signature Date: March 28, 2001

Box PATENT APPLICATION  
Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

Transmitted herewith for filing is a patent application identified as follows:

Inventors: Wei Pan, Jer-shen Maa, David R. Evans  
And Sheng Teng Hsu

Title: METHOD OF BARRIER METAL SURFACE TREATMENT  
PRIOR TO Cu DEPOSITION TO IMPROVE ADHESION  
AND TRENCH FILLING CHARACTERISTICS

No. of pages in Specification: 13 No. of Claims: 20

No. of sheets of Drawings: 2 Formal:     , Informal: X

Also enclosed are:

- X A Declaration.
- X An Assignment and Recordation Form Cover Sheet.
- X Power of Attorney by Assignee.
- A certified copy of a priority application.
- A Verified Statement to establish small entity status.
- X An Information Disclosure Statement under 37 C.F.R. §1.56.

The filing fee pursuant to 37 C.F.R. §1.16 is determined as follows:

No. Filed	No. Extra		Rate Small Entity/ Other Than Small Entity	
Basic Fee			\$355.00 \$710.00	= \$ 710.00
Total Claims <u>20</u> - 20	<u>0</u>	X	\$ 9.00 \$18.00	\$ 000.00
Independent Claims <u>3</u> - 3	<u>0</u>	X	\$ 40.00 \$ 80.00	\$ 00.00
First Presentation of Multiple Dependent Claim(s)	(0)		\$135.00 \$270.00	\$ 00.00
			Total	\$ 710.00

- If the difference is less than zero, enter "0".

X Please charge Deposit Account No. 19-1457 in the amount of (\$ 750.00) to cover the filing fee ( \$710.00 ) and assignment recording fee (\$40.00). A duplicate copy of this authorization is enclosed.

     A check in the amount of \$ 0.00 to cover the filing fee (\$ 0.00) and assignment recording fee (\$ 0.00) is enclosed.

X The Commissioner is hereby authorized to charge underpayment of any fees, (including those listed below), or credit any overpayment associated with this communication to Deposit Account No. 19-1457. A duplicate copy of this authorization is enclosed.

X Any additional filing fees under 37 C.F.R. § 1.16.

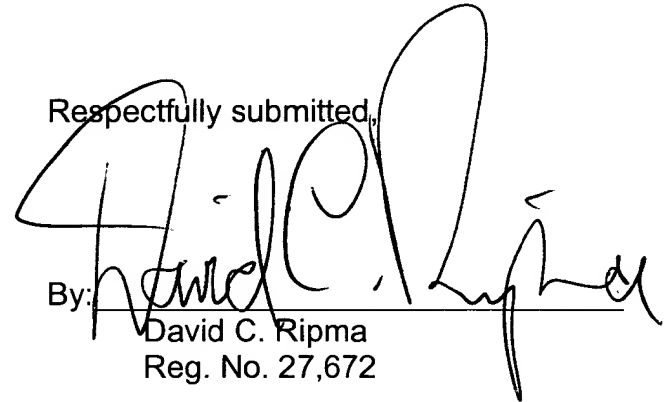
X Any patent application processing fees under 37 C.F.R. § 1.17.

Date:

March 28, 2001

Respectfully submitted,

By:



David C. Ripma  
Reg. No. 27,672

David C. Ripma, Patent Counsel  
Sharp Laboratories of America, Inc.  
5750 NW Pacific Rim Boulevard  
Camas, WA 98607

Telephone: (360) 834-8754  
Facsimile: (360) 817-8505